

1 M--LSIFKEFVKYNNRHVIKTQWIRCHSITTTQTLPO--LPCSSRKAHRRHLLPPLNAVASAAP-FKARKAHS-----MPPEKKEIF
 MAATPLLAVAGHVSYPANAKDSYCFKFASSARTVTLPOI IHWCRSSSHSSTGTTTMAVPVLKRREKQDEQEWGMYLAPEKLEVL
 M--QAHGI-----AIRARGPVAATQAPARR--RQC-----RVSAAVGAP---AARARVTHS-----MPPEKAEVF

 M--QVVG-----TVRVSGCGAVVAPS--R--RQC-----RVSAAVLTAETATATATRRRVTHS-----MPPEKAEVF
 M-----QIOTCYSIRIQLP--LP--WARRTGRHKMLPPIAAISATPSPKSPKTHS-----MPPEKTEIF
 MALKLHHTAFNPSM--AVTSSGLPRSYHL-----RSHRVFMASSSTIGITS-KEIPNAKKPHMPPREAHVQKTHS-----MPPQKTEIF
 MALLNSTITVAMKQNLVAVSFPRRTTCLGSFSPRLLRVSCVATNPSKTSEETDKKFRPIKEVPNQVTHT-----ITQEKLEIF
 MALKLNPTTFPS-----TRSLNNESSR-----SPRTFLMAASTFNSTSTKEAEKLLKSGHPKPEVHMVQVTHS-----MPPQKLEIF
 MALRLNPIPT--Q-----TFSLPQMPSL-----RSPFRMASTL--RSGSKEVENIKKPTTPPREVHVQVTHS-----MPPQKTEIF
 78 KSLGWASEWVLP LLKPVEQCWPQNFLPDPS-LPHEEFHQVKELRERTKELPDEYFVVLVGDMMVTE DALPTYTQTMINNL DGVKDDSGT
 AHLEPWAEAHVLP LLKPABEAWQPSDMLPDPAALGDEGFHDACRELRARAASVPDAHLVCLVGNMITEEALPTVQSVPNRFEAVRDLTGTA
 RSLEGWAARSLLP LLKPVEECWPADFLPDSS---SEMFGEVRELRARAAGLPDEYFVVLVGDMMVTEEALPTYTQTMINTLDGVRDETGA

 RSLEGWARSLLP LLKPVEECWPQTDFLPDSS---SEMFHQVHELRARAAGLPDEYFVVLVGDMMITEEALPTYTQTMINTLDGVRDETGA
 KSLWASQSVLP LLKPVEQCWPQEFVPDSS-LPFGDFTDQVKALRDRTAELPEEYFVVLVGDMMITE DALPTVQSMINNL DGVRETGS
 KSLGWAEENVLVHLKPVEKCWPQDFLPDPA--SEG-FMDQVKELRERTKEI PDEYLVVLVGDMMITEEALPTYTQTMINTLDGVRDETGA
 KSMENWAQENLLSYLKPVEASWPQDFLPETN--DEDRFYEQVKELRDRTKEI PDDYFVVLVGDMMITEEALPTYTQTTINTLDGVRDETGG
 KSLGWAEDVLLPHLKPVEKCWPQDFLPEPE--SDG-FEEQVKELRARAKELPDDYFVVLVGDMMITEEALPTYTQTMINTLDGVRDETGA
 KSLLEDWADQNILTHLKPVEKCWPQDFLPDPS--SDG-FEEQVKELRERAKEI PDDYFVVLVGDMMITEEALPTYTQTMINTLDGVRDETGA
 167 SPSPWAVWTRAWTA EENRHGDL LRTYLYLSGRVDMAKVEKTVHYLISAGMDPGTDNNPVLGEVYTSFQERATFVAHGNTARL--AKEGGD
 DSTAWARWIRGWSAEENRHGDALSHYMYLSGRVDMRQVDRTVHRLIASGMMANNAARSPYHGFIYVAFQERATAISHGNMARHVGA--HGD
 SNCPPWAVWTRAWTA EENRHGDL GKMYMYLSGRVDMRMVEKTVQYLICSGMDPGTENNPYLGFIYTSFQERATAVSHGNTARL--ARAHGD
 -----YLSGRFDMAEVEARVHRLIRSGMAVDPPCSPYHAFVYTAQERATAVAHGNTARLVGARGHGD
 SACPPWAVWTRTWTA EENRHGDL ILKGYMYLSGRVDMRMVEKTVQYLICSGMDPGTENNPYLGFIYTSFQERATAVSHGNTARL--AKEGGD
 SPSPWALWTRAWTA EEKRHGDL LRTYLYLSGRVDMKKIEKTVQYLICSGMDPGTENNPYLGFIYTSFQERATFVSHGNTARL--AKEGGD
 SLTSWAIWTRAWTA EENRHGDL LNKYLYLTGRVDMKQIEKTIQYLLICSGMDPRSENNPYLGFIYTSFQERATFISHGNTARL--AKDHGD
 SLTPWAVWVWTRAWTA EENRHGDL LNKYLYLSGRVDMRHVEKTIQYLLICSGMDSKFENNPXNGFIYTSFQERATFISHGNTAKL--ATTYGD
 SLTPWAIWTRAWTA EENRHGDL LNKYLYLSGRVDMRQIEKTIQYLLICSGMDPKTENNPYLGFIYTSFQERATFISHGNTARL--AKDHGD
 SLTSWAIWTRAWTA EENRHGDL LNKYLYLSGRVDMKQIEKTIQYLLICSGMDPRTEENSPYLGFIYTSFQERATFISHGNTARL--AKEHGD

FIG. 1-2